Data Sheet (Cat.No.TMAB-01410)

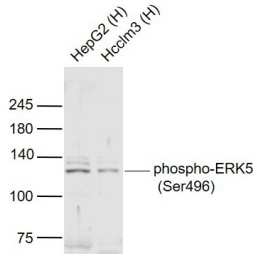
Anti-Phospho-ERK5 (Ser496) Polyclonal Antibody

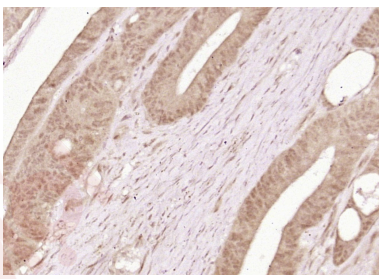
Product Details

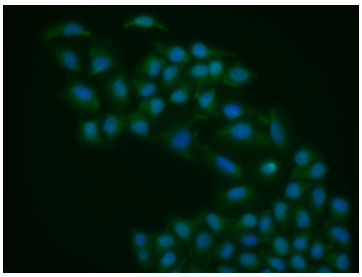
Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat)
Molecular Weight:	Theoretical: 90 kDa. Actual: 115 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Lane 1: HepG2 (Human) Cell Lysate at 30 µg Lane 2: Hcclm3 (Human) Cell Lysate at 30 µg Primary: Anti-phospho-ERK5 (Ser496) (TMAB-01410) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 115 kDa Observed band size: 115 kDa 2. Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-ERK5 (Ser496)) Polyclonal Antibody, Unconjugated (TMAB-01410) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining. 3. Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (phospho-ERK5 (Ser496)) polyclonal Antibody, Unconjugated (TMAB-01410) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.







Application:	ICC/IF,IF,IHC-Fr,IHC-P,WB
Recommended	ICC/IF=1:100-500; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated Synthesised phosphopeptide: human ERK5 around the phosphorylation site of Ser496
Antigen Species:	Human
Gene ID:	5598
Uniprot ID:	Q13164
Synonyms:	Extracellular Signal Regulated Kinase 5;Mitogen Activated Protein Kinase 7;p-ERK5 (S496);ERK5 (p-S496);BMK1;MAPK 7;ERK4;BMK1 Kinase;BMK 1 kinase;OTTHUMP00000065906; OTTHUMP00000065907;ERK5 (p-Ser496);Big MAP kinase 1;PROTEIN KINASE, MITOGEN-ACTIVATED, 7;BMK-1;MAPK7;ERK 5;EC 2.7.11.24;PRKM 7;MAP kinase 7;p-ERK5 (Ser496);PRKM7; MK07;ERK 4
Biology Area:	Neural Signal Transduction,Kinases,MAPK Pathway,Other Kinases

Research Background

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is specifically activated by mitogen-activated protein kinase kinase 5 (MAP2K5/MEK5). It is involved in the downstream signaling processes of various receptor molecules including receptor type kinases, and G protein-coupled receptors. In response to extracelluar signals, this kinase translocates to cell nucleus, where it regulates gene expression by phosphorylating, and activating different transcription factors. Four alternatively spliced transcript variants of this gene encoding two distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

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